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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Feb 24	PCTGEN now available on STN
NEWS	4	Feb 24	TEMA now available on STN
NEWS	5	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	6	Feb 26	PCTFULL now contains images
NEWS	7	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	8	Mar 24	PATDPAFULL now available on STN
NEWS	9	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	10	Apr 11	Display formats in DGENE enhanced
NEWS	11	Apr 14	MEDLINE Reload
NEWS	12	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	13	SEP 09	CA/Caplus records now contain indexing from 1907 to the present
NEWS	14	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	15	Apr 28	RDISCLOSURE now available on STN
NEWS	16	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	18	May 15	Supporter information for ENCOMPAT and ENCOMPLIT updated
NEWS	19	May 19	Simultaneous left and right truncation added to WSCA
NEWS	20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS	22	Jun 06	PASCAL enhanced with additional data
NEWS	23	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS	24	Jun 25	HSDB has been reloaded
NEWS	25	Jul 16	Data from 1960-1976 added to RDISCLOSURE
NEWS	26	Jul 21	Identification of STN records implemented
NEWS	27	Jul 21	Polymer class term count added to REGISTRY
NEWS	28	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS	29	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS	30	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS	31	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS	32	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS	33	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS	34	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS	35	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS	36	AUG 18	Simultaneous left and right truncation added to PASCAL

NEWS 37 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation  
 NEWS 38 AUG 18 Simultaneous left and right truncation added to ANABSTR  
 NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
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FILE COVERS 1907 - 16 Sep 2003 VOL 139 ISS 12  
 FILE LAST UPDATED: 15 Sep 2003 (20030915/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s sulfide

288001 SULFIDE  
 80256 SULFIDES  
 L1 318369 SULFIDE  
 (SULFIDE OR SULFIDES)

=> s (pyridylazo or nitrosoaminophenol)

4011 PYRIDYLAZO  
 1 PYRIDYLAZOS

4011 PYRIDYLAZO  
(PYRIDYLAZO OR PYRIDYLAZOS)  
10 NITROSOAMINOPHENOL  
1 NITROSOAMINOPHENOLS  
10 NITROSOAMINOPHENOL  
(NITROSOAMINOPHENOL OR NITROSOAMINOPHENOLS)

L2 4021 (PYRIDYLAZO OR NITROSOAMINOPHENOL)

=> s 11 (p) 12  
L3 16 L1 (P) L2

=> d 13 kwic 1-16

L3 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
AB . . . and either one of the ingredients set forth at (1) and (2): (1) an ingredient which is selected from alkali **sulfide**, alkali hydrogen **sulfide**, and the mixt. thereof; and (2) a chelate agent which contains at least .alpha.-benzoinoxime, diethyldithiocarbamic acid, cupferron, xanthogenic acid, neocupferron, beryllon II, .beta.-quinolinol, 1,1,1-trifluoro-3(2-thenoyl)acetone, dimethylglyoxime, and 1-(2-**pyridylazo**)-2-naphthol.

L3 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
AB The color of Ag(I)-5-Br-PADAP (2-(5-bromo-2-**pyridylazo**)-5-diethylaminophenol) complex is faded by **sulfide** in a NaOAc-HOAc buffer soln. (pH 5.3-6.6) in the presence of Na dodecyl sulfate. The apparent molar absorptivity of the . . . 1.2 .times. 10<sup>5</sup> L mol<sup>-1</sup> cm<sup>-1</sup>, and the degree of decoloring of the complex was proportional to the concn. of **sulfide** at 0-5 .mu.g/25 mL. The proposed method was applied to the detn. of **sulfide** in wastewater with satisfactory results.  
IT 151-21-3, Sodium dodecyl sulfate, uses 7440-22-4D, Silver, 5-Br-PADAP complex, uses 14337-53-2D, 2-(5-Bromo-2-**pyridylazo**)-5-diethylaminophenol, silver complex  
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (spectrophotometric detn. of **sulfide** by decoloring reaction of silver(I)-5-Br-PADAP-SDS system)

L3 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
AB A method is proposed for extn. of Pd(II) from salicylate soln. using triphenylphosphine **sulfide** as an extractant. Palladium(II) was detd. in the org. phase spectrophotometrically with 1-(2-**pyridylazo**)-2-naphthol. Log-log plots show the probable extd. species to be Pd(Hsal)<sub>2</sub>.TPPS. The method was successfully applied for the sepn. of palladium(II). . . .  
IT 54-21-7, Sodium salicylate 85-85-8, 1-(2-**Pyridylazo**)-2-naphthol  
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (in extn. and spectrophotometric detn. of palladium(II) using triphenylphosphine **sulfide**)

L3 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
AB . . . papers impregnated with 1% dimethylglyoxime, 1% 8-quinolinol, satd. rebeanic acid, 0.1% p-dimethylaminobenzylidenerhodanine, 0.05% benzidine, 0.2% bismuthiol II, 0.1% p-nitrosodimethylaniline, 0.1% 1-(2-**pyridylazo**)-2-naphthol, 1% Na diethyldithiocarbonate, and 0.1% ascorbic acid soln. were used. Metal ions were sepd. by combining these papers and the . . . sepn. into individual metal ions was not possible. Individual metal ion sepn. was achieved based on the solubilities of metal **sulfides** and the formation of a metal complex. The time necessary for the sepn. was .apprx.1 h. The metal ions were detected from the colors of either their **sulfide** or metal complex. Separable ranges were: Au(III) 0.25-1.0, Ir(IV) 0.2-1.5, Pd(II) 0.3-1.8, Pt(IV) 0.6-2.2, Rh(III) 0.45-1.2, and Ru(III) 0.3-0.7 .mu.g.. . .

- L3 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
 TI 1-(2-**pyridylazo**)-2-naphthol as an agent for the determination of cyanide and **sulfide**
- L3 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
 TI The determination of trace amounts of rare-earth activators in rare-earth oxide **sulfide** phosphors by high pressure liquid chromatography and a 4-(2-**pyridylazo**)resorcinol spectrophotometric detection  
 AB The detn. of trace amts. of Tb and Ce in luminescent phosphors, such as La, Gd, or Y oxide-**sulfides** is described. Anal. was carried out by high-pressure liq. chromatog. Isocratic and gradient elution sepn. of the lanthanides was performed. . . The detn. of small amts. of some activators and coactivators, such as Tb and Ce in several rare earth oxide **sulfide** phosphors is described, in which a HCl soln. was eluted through a stainless steel column packed with microparticulate SiO<sub>2</sub>, bonded with cation-exchange groups. Detection is performed by means of a UV-visible detector, with post-column complex formation with 4-(2-**pyridylazo**)resorcinol monosodium salt (PAR). The spectrophotometric measurements were carried out at 510 nm. Results obtained on test solns. and industrially produced. . .
- L3 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB . . . phosphors were carried out by gradient elution with 2-hydroxyisobutyric acid. The detn. of small amts. of Tb in Gd oxide **sulfide** phosphors is described in which an HCl soln. was eluted through a stainless steel column packed with microparticulate silica, with. . . bonded cation-exchange groups. Complete sepn. of Gd was achieved. Detection was with a variable-wavelength detector following post-column complex formation with 4-(2-**pyridylazo**)resorcinol mono-Na salt. Good reproducibility and sensitivity was obtained.
- L3 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB A method was developed for detg. In in salts and **sulfide** ores by extn. of a 1:1 complex of In(OH)<sub>2</sub><sup>+</sup> with 6-(2-**pyridylazo**)-4-cyclohexylresorcinol (H<sub>2</sub>L) from a NH<sub>4</sub>OAc buffer (pH 5) into 7:3 CHCl<sub>3</sub>-isoamyl alc. (partition coeff. 18.64) and measuring its absorbance at 560. . .
- L3 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB . . . sol. in aq.-org. mixts. have a similar color. In all cases the Co-reagent ratio is 1:2. Two of the reagents, 1-(2-**pyridylazo**)-2-naphthol and 1-(2-thiazolylazo)-2-naphthol, were used for the extn.-photometric detn. of Co in NH<sub>4</sub>Cl crystals activated with Co, in Hg[Co(CO)<sub>4</sub>]<sub>2</sub>, and in a **sulfide** ore.
- L3 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB Tl(III) was detd. semiquant. by paper chromatog. with MeCOPr as developing solvent and (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> or 1-(2-**pyridylazo**)-2-naphthol solns. as the detection reagent. The Tl(III) band size or color intensity can be correlated with the amt. of Tl(III). The method can be used to det. Tl in **sulfide**, sulfate, and silicate minerals and in Mn oxides; the detection limit is 4 ppm Tl.
- L3 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB . . . and Sn group (As<sup>3+</sup>, Sb<sup>3+</sup>). The groups were developed with M NH<sub>4</sub>Cl and N HCl, resp., and detd. with ammonium **sulfide** + 4-(2-**pyridylazo**)-resorcinol, and ammonium **sulfide** + Pd chloride reagent, resp. Rf values are: Hg<sub>2</sub><sup>+</sup> 0.04, Bi<sup>3+</sup> 0.11, Cd<sub>2</sub><sup>+</sup> 0.52, Cu<sub>2</sub><sup>+</sup> 0.27, Pb<sub>2</sub><sup>+</sup> 0.47, As<sup>3+</sup> 0.84,. . .
- L3 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB Photometric methods are proposed for the detn. of trace impurities and

alloying components in single crystals of Cd and Zn **sulfides** and selenides. The **sulfides** were dissolved in 6M HCl and the selenides in H<sub>2</sub>SO<sub>4</sub> in the presence of Br. The resulting solns. were evapd.. . . and the basic sulfates and oxides with NH<sub>4</sub>OH buffer. The anions were detd. photometrically as Cd and Zn complexes with 1-(2-**pyridylazo**)-2-naphthol after extn. with CHCl<sub>3</sub>.

L3 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
AB . . . with iso-PrOH. Reext. In from the org. layer with 2 portions of H<sub>2</sub>O, add to the aq. layer 1 ml. 4-(2-**pyridylazo**)-resorcinol and 2 ml. NH<sub>4</sub>OAc soln., and det. the absorbance of the complex. Evap. the aq. soln. after In extn. to. . . ml. 0.25% Na<sub>2</sub>S and heat to 70.degree. for 2 hrs. Filter and wash with 1% NH<sub>4</sub>OH (pH 4), decomp. the **sulfides** in 1:1 HCl and 2-3 drops HNO<sub>3</sub>. To det. Cu, evap. to a syrup, add 4 ml. H<sub>2</sub>O and NH<sub>4</sub>OH. . .

L3 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
AB . . . .apprx.350 to pulp mill wastes with a B.O.D. of .apprx.25,000. Anal. and test procedures are also described. The reagent P.A.R., [(**pyridylazo**)-rescorcinol], reacts with Fe and other toxic metals. If it is found that the amt. of Fe is equal to the. . . a low rate system, 100 to 3 to 6. Small quantities of Na, K, Mg, Fe, Mn, Ca, chloride, and **sulfide** are also necessary for the development of the different kinds or organisms, a wide variety of which should be present.. . .

L3 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
AB To det. Cu, dissolve 5 g. of sample in HCl if a **sulfide** or in H<sub>2</sub>SO<sub>4</sub> if a selenide. Ext. Cu at pH 2 with dithizone in CHCl<sub>3</sub>. Keep the aq. layer for. . . diphenylcarbazine. Det. Co in the aq. soln. from Cu sepn. by neutralizing with NH<sub>4</sub>OH to bromocresol blue, adding KIO<sub>4</sub> and 1-(2-**pyridylazo**)-2-naphthol (PAN). Let stand 5 min., add 2 ml. 1:1 HCl, and ext. with CHCl<sub>3</sub> after 5-10 min. Filter, and det.. . .

L3 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
AB cf. preceding abstr. Condensation of Pb(SPh)<sub>2</sub> and 2-chloro-5-nitropyridine gives 5-nitro-2-pyridyl Ph **sulfide** (preceding abstr., Part III). A Pb salt of 2-mercapto-5-nitropyridine in this reaction easily gives 5,5'-dinitro-2,2'-dipyridyl **sulfide**, pale yellow needles, m. 137.degree.. Reduction of the above 2 **sulfides** gives 5-amino-2-pyridyl Ph **sulfide** (I), colorless, rhomboprisms, m. 122-3.degree., and 5,5'-diamino-2,2'-dipyridyl **sulfide** (II), resp. II gives a HCl salt, colorless rhomboprisms, decomp. 250-3.degree.. Coupling 2,6-diaminopyridine to the diazonium compds. of I, II, [4-p-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SCH<sub>2</sub>Ph (preceding abstr., Part. III)], and p-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SEt (Monier-Williams, J. Chem. Soc. 89, 278 (1906)), gives, resp., 2,6-diamino-3-(2-phenylmercapto-5-**pyridylazo**)pyridine, red rhomboprisms, m. 158-9.degree.; bis-[5-(2,6-diamino-3-**pyridylazo**)-2-pyridyl] **sulfide**, red, minute rhomboprisms, m. 145-7.degree.; 2,6-diamino-3-[p-ethylmercaptophenylazo)pyridine, yellow, flat rhomboprisms, m. 163.degree.; and 2,6-diamino-3-[p-benzylmercaptophenylazo)pyridine], orange, flat rhomboprisms, m. 166-8.degree..

=> d 13 2, 5, ibib, iabs

L3 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 1998:278716 CAPLUS  
DOCUMENT NUMBER: 128:303396  
TITLE: Spectrophotometric determination of sulfide by decoloring reaction of silver(I)-5-Br-PADAP-SDS system  
AUTHOR(S): Luo, Zongming; Yang, Shunan; Deng, Jianping